

What is claimed is:

1. An arrangement for debris reduction in a radiation source based on a plasma comprising:

a radiation-generating plasma, as source location;

collector optics;

a debris filter being arranged between said radiation-generating plasma and collector optics; and

exchangeable additional optics being arranged in the radiation path between the debris filter and the collector optics, wherein a distance-increasing intermediate imaging of the source location relative to the collector optics is provided by the additional optics for further debris reduction.

2. The arrangement according to claim 1, wherein the additional optics are reflection optics.

3. The arrangement according to claim 2, wherein the additional optics have reflecting surfaces for reflection in grazing incidence.

4. The arrangement according to claim 3, wherein the reflecting surfaces of the additional optics are shaped as curved surfaces of revolution.

5. The arrangement according to claim 4, wherein the reflecting surface has the shape of an ellipsoid of revolution.

6. The arrangement according to claim 4, wherein the reflecting surface has the shape of a paraboloid of revolution.

7. The arrangement according to claim 4, wherein the reflecting surface has the shape of a hyperboloid.

8. The arrangement according to claim 4, wherein the additional optics comprise a combination of a plurality of reflecting surfaces with differently curved surfaces of revolution.
9. The arrangement according to claim 3, wherein the reflecting surfaces of the additional optics are made of metal which is highly reflective in the EUV region.
10. The arrangement according to claim 9, wherein the reflecting surfaces of the additional optics are incorporated in highly reflective metallic base material.
11. The arrangement according to claim 9, wherein the reflecting surfaces of the additional optics are coated with a highly reflective metallic coat.
12. The arrangement according to claim 9, wherein the reflecting surfaces of the additional optics contain at least one of the metals, molybdenum, rhodium or palladium.